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Dome® C3 Display DX/PCI Display Controller

Reference Guide

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Regulatory Compliance

This display has been tested and found to comply with IEC/EN 60601-1 and IEC/EN 60601-1-2 standards, and is certified to meet medical standard C22.2 No. 601.1-M1990 (C US Mark).

The medical display, in addition to meeting medical requirements, has been tested and found to comply with the limits for Federal Communications Commission (FCC) Class B computing devices in a typically configured system since many medical offices are located in residential areas. It is the system integrator's responsibility to test and ensure that the entire system complies with applicable electromagnetic compatibility (EMC) laws.

Planar Systems, Inc. has made great efforts to support the medical device industry, in particular, medical device manufacturers and medical device system integrators. We offer state-of-the-art color displays that are compliant with worldwide accepted medical device safety standards, and for the European market, CE-marked displays based on compliance with counsel directive 93/42/EEC—commonly referred to as the Medical Device Directive (MDD). The following summarizes our qualification of these displays as it relates to compliance with the MDD.

The European Medical Device Directive requires that the intended use of the device be defined. The intended use of these displays is "to display alphanumeric, graphic, and image data as inputted from any type of medical device." These displays do not provide a measurement function in any way, and it is the device and systems manufacturer's responsibility to verify its function in the integrated device or system.

The display was classified as required by the MDD according to Annex IX of the directive and the medical device (MEDDEV) guidance available at the time of classification. Because the display uses electrical energy and has no direct patient connections and—by itself—no medical utility, the display is classified according to Rule 12 as an MDD Class I device, component, or accessory. The MDD states that manufacturers of Class I medical devices or accessories shall satisfy the requirements in regard to design and manufacturing controls, that is, the applicable assessment route to be used for CE-marking under the MDD, and it shall carry the CE mark according to Annex XII of the directive, with no notified body annotation.

The applicable safety standards for an MDD Class I display are IEC/EN 60601-1:1990 along with Amendments 1 and 2. To help the medical device designer evaluate the suitability of these displays, Planar has also conducted EMC testing to IEC 60601-1-2 as it can be applied. The display with its power supply alone does not represent a functional medical device. Hence, Planar configured a minimal operating system to exercise the display. The resulting data are made available to interested parties.

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This is informative data, not certification data. Certification data must be obtained by the device or system integrator according to Article 12 of the MDD titled "Particular procedure for systems and procedure packs." Paragraph 2 clearly outlines the device or system integrator's responsibility in this matter.

In summary, Planar Systems, Inc. is CE-marking these displays under the Medical Device Directive, which establishes compliance to the basic medical safety standards. However, EMC compliance can only be accomplished in the configured medical device or system and is the responsibility of the device or system manufacturer. Planar has the necessary documentation such as IEC 60601-1 notified body and other third-party test reports and certifications, a risk/hazard analysis, an essential requirements checklist, and the Planar International Electrotechnical Commission (IEC) declaration of conformity.

Planar Systems, Inc., located in Beaverton, Oregon, USA, is the manufacturer of these displays in the meaning of the directive. As required by the MDD in Article 14, Planar Systems, Inc., not residing in the European Economic Area (EEA), has a European representative, Planar Systems, Inc.—Olarinluoma 9, P. O. Box 46, FIN-02201 Espoo, Finland (phone + 358 9 420 01; fax + 358 9 420 0200).

In the opinion of Planar Systems, Inc. registration required to put this device into commerce is the responsibility of the medical device/system manufacturer, and Planar supports this requirement by providing a European Commission (EC) declaration of conformity. If Planar supplies a display to an end user, rather than a device manufacturer, it is the end user's responsibility to ensure continued compliance with the MDD of the system in which the display is integrated.

For vigilance reporting as required under Article 10 of the MDD, Planar Systems, Inc. will provide any information requested by competent authority to support any reported incident investigation by such an authority.

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European Union Declaration of Conformity for Medical Application

A Declaration of Conformity has been filed for this product. For additional copies of the Declaration of Conformity document, contact Planar Systems, Inc.

The Dome C3 digital flat-panel display meets the essential health and safety requirements, is in conformity with, and the CE marking has been applied according to the relevant EU Directives listed below, using the relevant section of the following EU standards and other normative documents;

EU EMC Directive 89/336/EEC

EU Electromagnetic Compatibility Directive

EN 60601-1-2 (2001) Medical Electrical Equipment	Section 1.2. Collateral standard electromagnetic compatibility requirements
EN 55011 (Class B)	Limits and methods of measurements for radio interference characteristics of industrial, scientific, and medical equipment
IEC 1000-3-2	Harmonic emissions
IEC 1000-3-3	Voltage fluctuations/flicker emissions
IEC 1000-4-2	Electrostatic discharge requirements for industrial process measurement and control equipment
IEC 1000-4-3	Radiated electromagnetic field requirements for industrial process measurement and control equipment
IEC 1000-4-4	Electrically fast transients for industrial process measurement and control equipment
IEC 1000-4-5	Surge requirements
IEC 1000-4-11	Voltage variations/dips/interrupts
IEC 1000-4-6	Conducted immunity
IEC 1000-4-8	Magnetic field immunity
CE	
EN 60601-1 Medical Electrical Equipment	Conformance to the Medical Device Directive 93/42/EEC

EN 60601-1 Medical
Electrical Equipment

Part 1: General requirements for safety

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FCC Compliance Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technical for help.

Caution: Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian DoC Notice

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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Product Information

The design of the Dome C3 digital flat-panel display takes into account every known measure to ensure your personal safety. Improper use of the display can result in electric shock, fire, or damage to the display. Read all instructions before setting up the display.

Intended use

The Dome C3 display is designed for viewing medical X-ray images.

Safety precautions

External equipment intended for connection to signal input, signal output, or other connectors, must comply with the relevant IEC standard (EN/IEC 60601-1 series for medical electrical equipment). In addition, all such combinations (systems) must comply with the standard IEC 60601-1-1, *Safety requirements for medical electrical systems*. Equipment not complying to IEC 60601 must be kept outside the patient environment, as defined in the standard as at least 1.5 meters from the patient or the patient support.

Any person who connects external equipment to signal input, signal output, or other connectors has formed a system and is therefore responsible for the system to comply with the requirements of IEC 60601-1-1. If in doubt, speak with a qualified technician.

To prevent fire or injury

- Replace the power supply or cables if damaged.
- Use only the appropriate power source indicated in this guide or listed on the display.
- Activate the Dome CXtra Backlight Saver service (the preferred method) or the DPMS energy saver when the display is idle for extended periods.
- Do not plug the power supply into an overloaded AC outlet or extension cord. Overloaded AC outlets and cords can result in electric shock or fire.
- Do not drop or push objects into the display case. Internal components contain high voltage.
- Unplug the power cord from the wall outlet during thunderstorms.
- Do not place magnetic devices, such as magnets or motors, near the display.



Safety tips

- Never open the Dome C3 display case, even when the power is off. Dangerous voltage inside may cause electric shock or death.
- To avoid damage to the Dome C3 display, use the grounded power supply and video cable supplied by Planar, or use certified replacements.
- Be sure the Dome C3 display is electrically grounded. You must connect the third grounding pin on the US power cord to a grounded outlet. The European power cord does not have a third grounding pin, but it still must be plugged into a grounded outlet.
- If you cannot insert the plug into the outlet you plan to use, have a licensed electrician replace the outlet with a properly grounded outlet. If your power cord connects directly into the computer, make sure the computer is grounded.
- Take appropriate measures to keep the Dome C3 display dry if it is within a surgical system. The display lacks protection against liquids or spills.

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To set up the display properly

- Allow the display to warm up to room temperature before turning it on, particularly if the unit is cold from shipping or storage.
- Avoid sudden temperature changes. Sudden changes may cause condensation that can damage the display.
- Turn off your computer, but leave it plugged into a grounded outlet.
- Secure the display properly onto a standard VESA 100-mm mounting unit if you elect not to use the desk stand.
- Do not step on or place anything on top of the power cord.
- Do not set up the display near strong light sources.
- Do not block the vents on the back of the display or install the display in a built-in enclosure. Blocked vents cause excessive heat to build up inside the display, increasing risk of fire.
- Do not expose the display to water or excessive moisture.
- Do not place the display near a heat source.
- Do not hang anything from the display.
- Use the display only in an indoor setting.

To disconnect the power supply properly

First, turn off your computer and other connected devices. Then unplug the power supply from the display or wall outlet.

Reasons to disconnect power

- Power cord is damaged.
- Liquid spills inside the display case.
- Display is dropped or case is damaged.
- Display needs service or repair.
- Display or case needs cleaning.

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To clean the LCD screen

- 1 Unplug the power supply.
- 2 Dampen a clean, soft nonabrasive cloth with isopropyl alcohol.
- 3 Wipe the screen *gently*.
- 4 Dry the screen with a clean, soft nonabrasive cloth to remove any residue.

Shipping/storing the display

Keep the display in its shipping container until installation. Return the display to its original container whenever you need to store the unit, move it to another location, or return it for repair.

Before returning the display to the container for shipping or storing, do the following:

- Swivel the display panel in portrait mode.
- Push the panel down to the lowest position.
- Use the stand lock to anchor the panel.

Always transport the Dome C3i display in its original container. The packaging supplied by the manufacturer protects the display from damage while it is in transit.

Symbol explanations

The following symbols may appear on the product or product packaging.



Barometric pressure



Relative humidity



Temperature

Maintenance tips

- Use a clean, lint-free, absorbent cotton cloth to clear off any residual glue from removal of the protective film.
- Use a clean, lint-free, absorbent cotton cloth to remove surface dust. Apply light pressure to remove the dust.
- Dampen a clean cloth with a small amount of isopropyl alcohol to remove glue or dust if the screen is still not clean. Use a clean, dry cloth to completely remove the alcohol residue.
- Do not use chemically treated dust cloths on the display case or LCD screen.
- Do not use acetone, toluene, or harsh solvents. They can damage the polarizer and display case.
- Do not saturate the cleaning cloth with alcohol. The alcohol may seep into the display case and collect in the enclosure.
- Do not allow water or other stains to stand on the unit. Wipe these off immediately to prevent damage to the display case and screen.

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About the Dome C3 Display

The Dome C3 display system consists of a 528-mm (20.8-in.) TFT LCD panel and a DX display controller and driver. The display's thin film transistors (TFTs), in a transmissive-type display, use an integrated cold cathode fluorescent tube (CCFT) backlight system.

The display is designed for 3-megapixel (1536 x 2048) grayscale medical imaging in diagnostic settings, in either portrait or landscape orientation. It comes fully tuned with gamma correction that complies with the DICOM Part 14 Standard. An all-digital design enables the display to produce the sharp, crisp images critical to softcopy medical viewing. Unwanted analog display image artifacts, such as noise, jitter, ghosting, and image smearing are eliminated.

The Dome C3 display is available as a color or grayscale panel. Each model offers the following key features. See the [specification](#) for more information.

- 3061 distinct shades of gray
- AMLCD technology for consistent image quality
- Exceptional contrast ratio for viewing images in well-lit areas
- Accelerated hardware rotation for viewing images in portrait or landscape mode
- Calibrated to DICOM response curve
- Automated calibration and backlight stabilization through RightLight technology

The [Dome CXtra™ software](#) enhances the functionality of the Dome C3 display. CXtra provides a range of value-added services, such as DICOM calibration, error reporting, and backlight saver. Refer to the CXtra 3.0 User's Guide for more information.

Before installing the display system, review the [safety](#) and [installation precautions](#). Once your display system is in operation, follow the guidelines for [cleaning](#) and servicing your unit.

Systems requirements

Computer system

PCI slot per board
50 MB hard disk space
256 MB RAM
CD-ROM drive

Operating system

Windows XP or Windows 2000

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Package Contents

The Dome C3 display system contains the items shown here. Speak with your sales rep if any item is missing or damaged.



DX display controller



DVI video cable



DC power adapter

Dome C3 Display



Dome C3 LCD panel mounted on desk stand



AC power cord



CD-ROMs with [display driver](#) and [Dome CXtra](#) software



Quick references for Dome C3 display and Dome CXtra software

Unpacking and handling tips

The Dome C3 display is a precision instrument that requires proper care to maintain product operation and adherence to specification.

Unpack the display and components carefully. Improper handling may damage or break the LCD glass.

- Use both hands to grasp the display case when lifting it from the shipping carton, but avoid touching the screen.
- Do not touch the polarizer with foreign objects.
- Do not touch the polarizer with bare fingers. Some cosmetics are detrimental to the polarizer, and skin oils are difficult to remove.
- Avoid sudden temperature change as this may cause condensation, which damages the display.
- Do not subject the unit to strong light sources.
- Do not remove the back cover or disassemble the display. There are no user-serviceable parts.

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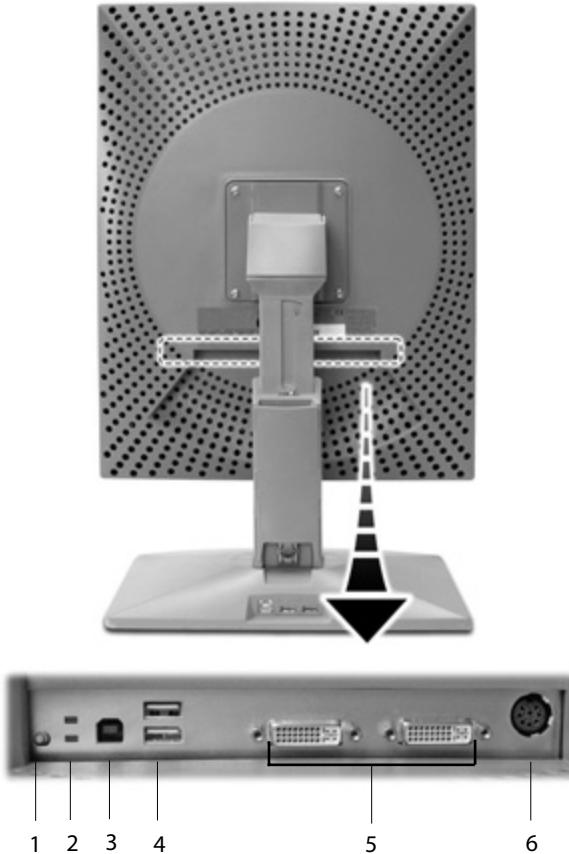
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Identify the Components

Review this illustration of the back panel to identify controls and ports on the display unit.



Dome C3 Display

Controls and connector ports

- 1 Reset button. Restores the display configuration to its default setting.
- 2 LED status lights. Provides information about the status of the display. See [page 19](#) for more information.
- 3 USB B (upstream) port
- 4 USB A (downstream) ports
- 5 DVI connectors. Drive the data to the display.
- 6 8-pin DIN connector. Drives power to the display.

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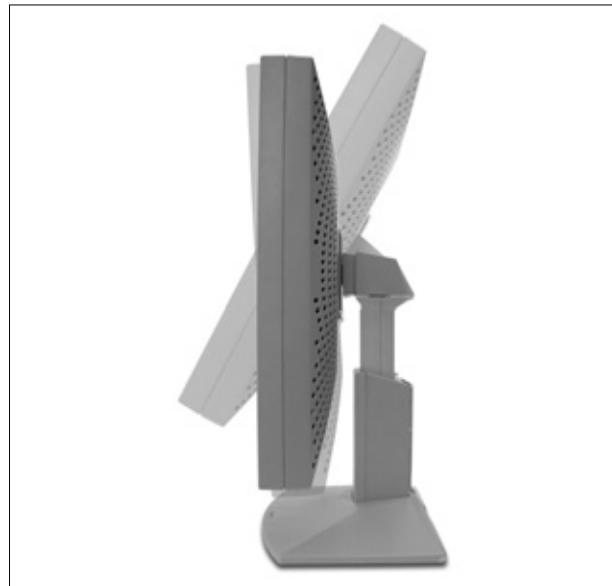
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Position the Display

You can adjust the tilt, height, viewing angle, and orientation of the display to maintain an ergonomic and comfortable viewing position. Before you unpack the display, select a suitable workspace for the display. You need a stable, level, and clean surface near a wall outlet.

Tilt range

Adjust the tilt angle of the display so that the screen faces slightly downward from your angle of view.



Height range

Unfasten the [stand lock](#) at the top of the desk stand (slide it to the left) then raise or lower the panel to adjust the height. Your eyes should be level with the top of the display cabinet so that you look downward to read the screen contents.



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Viewing angle

Swivel the display panel from side to side to adjust the viewing angle.

**Orientation mode**

Use both hands to turn the display 90 degrees clockwise to rotate the display between portrait and landscape modes.



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Desk Stand Features

Unfasten the stand lock to [adjust display height](#). Remove the stand cover to thread the [power cord and DVI cable connections](#) to the display. To activate the USB hub function, the display must be connected to a USB-compliant computer or another hub with a USB cable. Even if the display is in power-saving mode, the USB devices function when they are connected to the USB ports (both upstream and downstream) of the display.

Stand lock

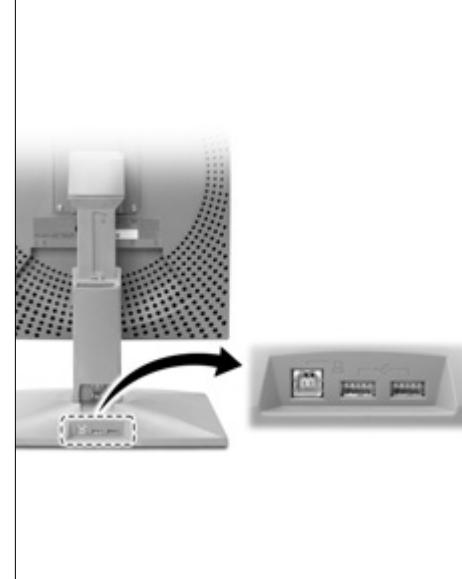
Move the stand lock lever to the left to adjust the height of the display.

**Stand cover release**

Press the PUSH button at the bottom of the desk stand and pull the stand cover down and out to remove it.

**USB hub**

Use the integrated, self-powered [USB hub](#) to attach USB devices to the display rather than to the computer.



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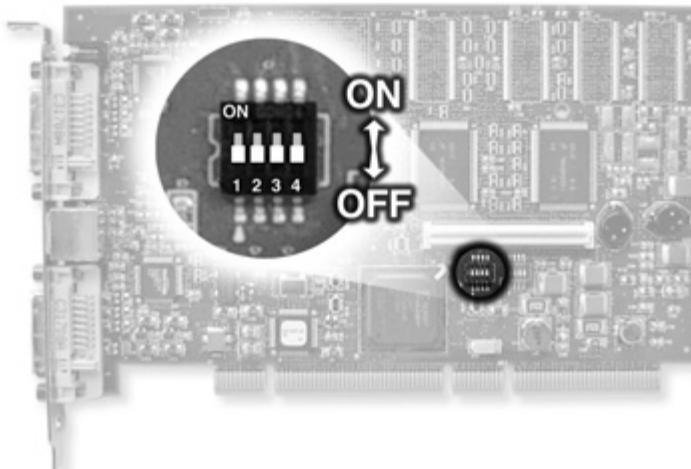
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Set the DIP Switch

To enable VGA mode on the DX display controller, slide switch 1 on the DIP switch into the ON position. Enable VGA on only one board when you install multiple DX display controllers.

Disable VGA on all DX display controller if you are using a separate VGA card.

For single desktop mode, slide switch 3 into the ON position.

**Warning**

If you leave the computer turned on, you could get an electric shock and cause damage to the system components.

Remove the DX display controller slowly from its package and static-shielding bag to prevent an electrostatic discharge.

Static electricity can damage the controller. When touching the board or parts of the motherboard, take these precautions:

- Wear an antistatic wrist strap.
- Discharge your body's static electricity repeatedly by touching the power supply or the metal surface of the computer chassis.

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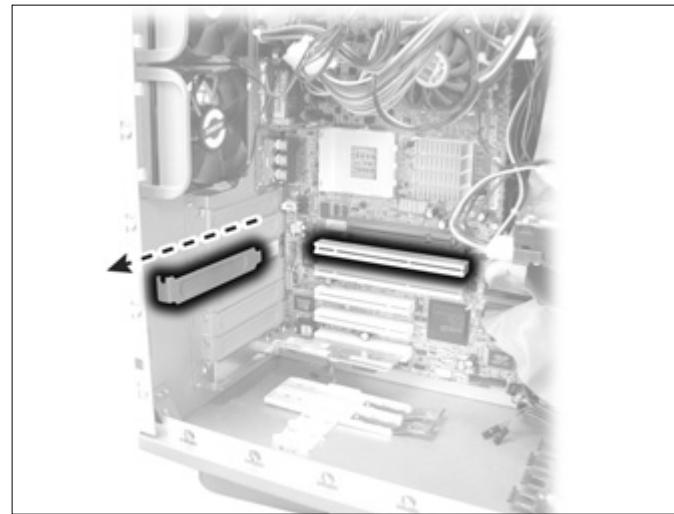
Install the Display Controller

Before you begin, choose a well-ventilated location with an adequate amount of space. Excessive heat cannot dissipate when display vents are blocked. Make sure a grounded AC outlet is within easy reach.

When installing multiple DX display controllers, install all boards before you install the display driver.

Turn your computer off. Leave the power cord plugged into the grounded outlet.

To install the display controller



1 Remove the blank bracket from an available PCI slot.



2 Insert the display controller into the slot, align the connector pins, and press the board down until it is firmly seated. Secure the mounting bracket.

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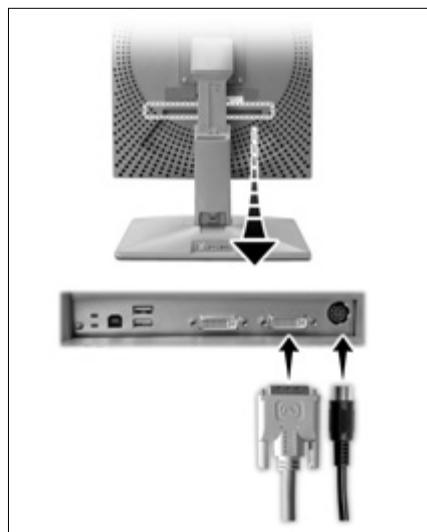
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Connect Video Cable and Power Supply

Turn your computer off. Leave the power cord plugged into the grounded outlet. Use the Dome C3 display with the power supply and video cable shipped. The universal external 12V DC power supply is the Ault MW122RA1223F02.

To connect the display

- 1 Plug one end of the DVI cable into the video port on the interface plate. Secure the connection.
- 2 Plug the power cord into the power input port on the interface plate.
- 3 Plug the other end of the DVI cable into the Video 1 port on the installed DX display controller. Secure the connection.
- 4 Plug the other end of the power cord into the power supply.
- 5 Plug the power supply cord into a grounded AC outlet.



Dome C3 Display



Installation tips

Easy access to ports

For displays mounted on a desk stand, rotate the LCD panel from portrait to landscape for easy access to the ports.

Threading cables

Thread the DVI cable and power cord through the back of the stand. Make sure the cable and cord run through the notches. To reattach the stand cover, align the hooks with the slots on the stand. Press the cover into place. A click sound signals a secure connection.

Restarting

Turn on your display before you turn on your computer. Failing to do so could damage the display.

Multiple displays

Connect the first display of a two-headed system, or the only display of a one-headed system, to the Video 1 port. Connect all displays to the DX display controller before you turn on the computer system to install the driver. The driver can then detect all displays.

Using two displays allows you to view two images simultaneously or one image across both displays.

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Install the Display Driver

Before you install the driver, remove any previously installed display driver for the DX display controller from your computer system. Follow the procedure shown in the sidebar.

Use the following procedures to install the display driver on Windows XP and Windows 2000 systems.

To install the driver

- 1 Log on with administrator privileges. The InstallShield Wizard reports new hardware.
- 2 Click Cancel. You must run Setup.exe to install the driver.
- 3 Insert the W2KDXPCI CD and open the CD folder.
- 4 Double-click Setup.exe.
- 5 Click Next to proceed through the installation and start copying files.
- 6 Click Yes on the Digital Signature Not Found dialog box for each display that you install. (On Windows XP systems, the Hardware Installation dialog box is equivalent. Click Continue Anyway to proceed.)
- 7 Select Yes, I want to restart my computer now, and click Finish.

To enable the display

- 1 Log on with administrator privileges.
- 2 Right-click the desktop. Select Properties > Settings.
- 3 Select the display icon.
- 4 Select Extend my Windows desktop onto this monitor. Click Apply.
- 5 Click OK.

Removing an existing driver

If necessary, uninstall the 63-WINDE driver for the DX display controller before you install the 63-W2KDXPCI driver.

To remove the 63-WINDE driver

- 1 Log on with administrator privileges.
- 2 Insert the WINDE CD and open the CD folder.
- 3 Browse to the Win2k\DXpci directory.
- 4 Double-click Setup.exe.
- 5 Select Remove and click Next.
- 6 Click OK to confirm uninstall.
- 7 Select Yes, I want to restart my computer now, and click Finish.

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Change the Display Properties

You can change the display properties, such as resolution, palette options, and brightness, using the Dome tab after the Dome C3 display is attached to the Windows desktop. Otherwise, use Properties > Settings tab.

To determine screen assignments

Click Identify in the Settings tab to match screens to display controllers.

To set the resolution

Use the Resolution field on the Dome tab to set the resolution to portrait, landscape, or [single desktop](#). When you set the resolution for one display of a dual-headed DX display controller, the second display assumes the same resolution.

- 1 Log on with administrator privileges.
- 2 Right-click the desktop. Select Properties > Settings.
- 3 Select Default Monitor and Dome DX/PCI Properties from the Display list.
- 4 Check the selection box for Extend my Windows desktop onto this monitor.
- 5 Select Advanced > Dome.
- 6 Choose a resolution and palette option. Click Apply.
- 7 Click OK until you return to the desktop.

To set palette options

For more information on palette options, see "Palette Options" on [page 27](#).

To set brightness

In the Brightness field of the DOME tab, slide the scroll box left or right, or use the left and right arrows, to set brightness for each flat panel. (The default brightness is 100%.) Click OK.

Dome C3 Display

Screen assignments

Windows 2000 renumbers and reassigns screens as you add them to the configuration. Set resolutions or preferences only after all display controller and screens are installed. Restart your system to make sure the screen assignments are retained.

Resolutions and palettes

Set display properties on the Dome C3 display using the resolutions and palette options listed below. Note that single desktop requires a dual display system.

Resolutions available

1536 x 2048 portrait
2048 x 1536 landscape
3072 x 2048 single desktop, portrait
4096 x 1536 single desktop, landscape

Palette options

C3 gray display:

Dynamic gray
Nonlinear gray
Static gray
True color

C3 color display:

Color
True color

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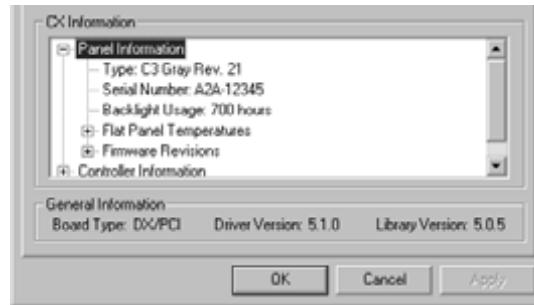
To set driver options

Beware that the Disable DirectDraw driver option has specific conditions which may affect your display.

In the Driver Options field of the Dome tab, select Disable DirectDraw.
Click Apply or OK.

To get information

Information about the flat panel, display controller, and driver appears on the lower half of the Dome tab.



Panel information includes panel type, serial number, backlight usage, and onboard temperature (in degrees Celsius). The temperature reading of a panel is given when you first open the panel and if you later select it. The revision numbers of the firmware and microcontrollers are also included. General information includes display controller type, driver version, and library version.

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Enhancements with Dome CXtra Software

The Dome CXtra™ software enhances the functionality of the Dome C3 display for viewing medical images in diagnostic settings. The CX Edition 4.0 for Dome CX displays comes in two volumes: the base package ships with the display; the validation package is sold separately.

The advantages of Dome CXtra includes consistent grayscale presentation of images, as a result of conformance with the DICOM Grayscale Standard display function. Specifically, the Dome C3 display is fully calibrated to the DICOM response curve. It uses an embedded RightLight™ sensor to provide continuous luminance stability, guaranteeing consistent image quality and adherence to DICOM standards. This sensor works with the digital interface board that is built into the back of the Dome C3 display.

Dome CXtra base services allow you to monitor and stabilize display backlights, schedule the backlight saver, and retrieve information on CXtra events and errors conditions.

With validation services, you can run display acceptance tests, including the recommendations of the American Association of Physicists in Medicine Task Group 18 and the DIN test standards. You can also monitor and maintain your Dome C3 display locally or from a remote location using any SNMP console application.

For more information, visit www.planar.com.

CX Edition 4.0

Base package, included with display:

- Reporting – Access service info, view events and history, and check events related to error conditions.
- RightLight – Stabilize display backlights and maintain DICOM conformance and desired white level across displays.
- Backlight saver – Schedule sleep for the display backlights.
- Privilege – Limit users who can change display parameters.

Validation package, sold separately:

- AAPM TG18 Test – Use AAPM TG 18 recommendations to test displays.
- DIN acceptance – Perform the German standard test to measure display performance.
- QuickSwitch – Toggle between portrait and landscape modes.
- Test patterns – View test patterns that show the display image quality.
- Enterprise management – Manage displays remotely using any SNMP console application, or locally.

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Troubleshooting

Problem	Possible cause	Solution
No image appears on the screen	Computer is not powered on. Power cord is not securely connected. Video cable connected incorrectly.	Turn on computer. Tighten power cord connection and turn on computer. Make sure the first display of a dual-headed system or the only display of a single-headed system is connected to the Video 1 port on the DX display controller. (See page 8 .)
Power LED is amber	Display is in DPMS mode. No active signal coming from computer. Signal cable is not fastened securely. Computer video signal is not VESA DPMS standard.	Turn off DPMS mode. Turn off computer and secure connections. Turn off computer and secure connections. Use a VESA DPMS-compliant computer or video controller.
"Check video cable" message	Video cable is not securely fastened.	Turn off computer. Check and secure connection. Check computer power and graphics adapter configuration.
VGA not enabled	Incorrect DIP switch settings.	You may need to remove the DX display controller to check the DIP switch settings. You can enable VGA on the DX display controller or use a separate VGA card. See page 7 for the correct switch positions to enable or disable VGA, depending on your system.

(cont.)

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Problem	Possible cause	Solution
Unsigned driver cannot be loaded message	To allow installation of Dome drivers, set the HKCU\Software\Policies\Microsoft\Windows NT\Driver Signing key.	<p>To allow installation of Dome drivers, set the HKCU\Software\Policies\Microsoft\Windows NT\Driver Signing key.</p> <p>To install the driver:</p> <ol style="list-style-type: none"> Select Start > Settings > Control Panel > System. The System Properties dialog box appears. Select Hardware > Driver Signing in the Device Manager section. Select either Ignore or Warn to allow installation of the Dome driver and other unsigned drivers. <ul style="list-style-type: none"> If you select Ignore, the installation program ignores the lack of a valid Catalog file with a digital signature. If you select Warn, the message Digital Signature Not Found appears and prompts you to continue or cancel.
Conflict with driver versions	<p>A previous version of the display driver is still installed on the computer system.</p> <p>The installation CD contains a file older than the one currently on your system.</p>	<p>Remove any existing Dome display driver before you install a more recent version.</p> <p>The Confirm File Replace dialog box appears if the installation CD contains a file older than the one currently on your system. Click No to the question Overwrite the newer file? or click No to All.</p>

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Display Specifications

Display Category	Characteristic Item	Specification
Screen	Screen size diagonal	52.8 cm (20.8 in.)
	Resolution	1536 x 2048 pixels (portrait); 2048 x 1536 pixels (landscape)
	Pixel pitch	0.207 mm x 0.207 mm
	Pixel arrangement	Subpixel vertical stripe
	Active area (mm)	423.9 (H) x 318.0 (V)
	Number of colors supported	C3 Color – 16.7 million true color (8 bits/RGB); 8-bit pseudocolor (256 colors) C3 Gray – 3061 shades of gray – programmable gamma
	Refresh rate	60 Hz
	Contrast ratio	600:1 (typical)
	Brightness	C3 Color – 70 fL, or 235 cd/m ² (typical) C3 Gray – 233 fL, or 800 cd/m ² (typical)
	Pixel rise/fall time	50 ms
	Viewing angle	170° (± 85°) horizontal/vertical
Interface	Digital Video In	2 DVI single-channel digital connectors
	Display control - brightness/contrast	DDC2B+
	Display identification	EDID read using DDC2B+
	USB hub	Universal Serial Bus (USB) Rev. 1.1: 1 uplink B port; 2 downlink A ports
	Monitor status	Dual stack tricolor LEDs on back panel
Input formats	Landscape orientation	2048 x 1536 (8- and 24-bit per pixel)
	Portrait orientation	1536 x 2048 (8- and 24-bit per pixel) with automatic hardware rotate
	VGA™/XGA	640 x 480 to 1024 x 768 pixels displayed in both landscape and portrait rotation
	Screen type	AMLCD (active-matrix liquid crystal display)
Physical	Display size (without stand)	485.78 mm x 381 mm x 101.6 mm (19.125 in. x 15 in. x 4 in.)
	Display weight (without stand)	6.35 kg (14 lb.)
	Mounting options	100-mm VESA mounting standard
Power requirements	Input voltage	+12 V ±10%
	Power consumption	90 Watts maximum

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Power Supply

Power Supply Category	Characteristic Item	Specification
Power input requirements	Voltage selection	Auto-ranging
	Voltage	100 – 240V AC
	Current	2.0 A
	Frequency	50 to 60 Hz
Power output requirements	Voltage	12 V DC ±5%
	Current	10.0 A (120 W)
Physical	Size	228.6 mm x 76.2 mm x 50.8 mm (9 in x 3 in x 2 in)
	Weight	1.3 kg (2.75 lb)

Reliability

Characteristic item	Specification
Display plus backlight	MTBF 50,000 hours with 50% duty cycle on backlight
Backlight	MTBF 30,000 hours to 50% brightness with backlight on continuously

Environment

Characteristic item	Specification	
EMI shielding	No emission of low-level radiation	
Temperature	operating	10° to 40° C
	storage	-10° to 60° C
Humidity	operating	20% to 80% Relative Humidity (non-condensing)
	storage	5% to 90% Relative Humidity (non-condensing)

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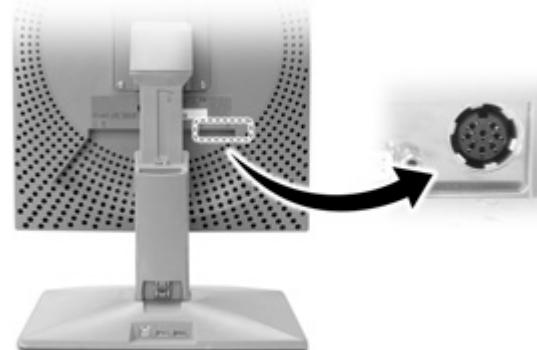
Video Modes

Resolutions expressed in pixels (W x H). Single desktop requires dual displays.

CX display	Resolution option	Orientation	Palette option	Bits per pixel
C3 gray	1536 x 2048	Portrait	Dynamic gray Nonlinear gray Static gray	8
	2048 x 1536	Landscape		
	3072 x 2048	Portrait, single desktop		
	4096 x 1536	Landscape, single desktop		
C3 color	1536 x 2048	Portrait	Color	8
	2048 x 1536	Landscape		
	3072 x 2048	Portrait, single desktop		
	4096 x 1536	Landscape, single desktop		
C3 gray or color	1536 x 2048	Portrait	True color	32
	2048 x 1536	Landscape		
	3072 x 2048	Portrait, single desktop		
	4096 x 1536	Landscape, single desktop		

DVI 1.0 Interface

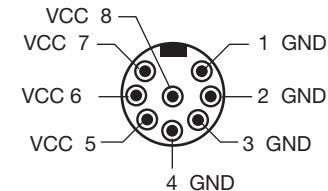
The Dome C3 display connects to the DX board via a DVI 1.0 interface. Power input is 12V ±5% (100 W). See details of the 8-pin DIN power connector to the right.



Dome C3 Display

DIN connector

Details of the 8-pin DIN connector.



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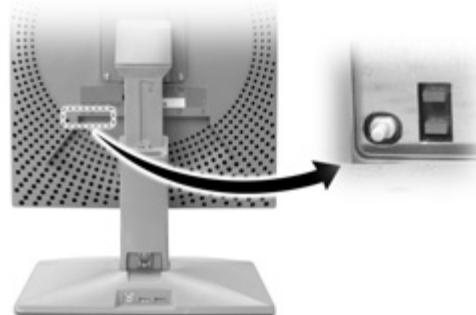
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LED Status Lights

The two LEDs on the back panel provide information about the display.

- LED A describes the digital-link status between the DX display controller and the interface.
- LED B describes the display-panel status. it shows any faults currently in the panel.



*Reset button (left) and LEDs on interface plate
LED A, top
LED B*

Power-up sequence information from LED

LED A	Action/Sequence	LED B	Description
Solid green	Initial power-on	Solid green	One (1) second of solid green to verify the green LED works.
Solid red	One (1) second after power-on	Solid red	One (1) second of solid red to verify the red LED works.
Solid yellow	Two seconds after power-on	Solid yellow	One (1) second of solid yellow to verify the yellow LED works.
Flashing red	Link working, unrecognized sync information	Flashing red	Internal fatal fault was discovered during power-on self-test.
Flashing yellow	n seconds after power-on	Flashing yellow	Service fault was discovered during power-on self-test.

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LED A status information after initial power-on

LED Status	Description
Solid green	Fault
Flashing green	Functional link – normal operation
Flashing red	Link working, unrecognized sync information
Solid yellow	Receiving DDC information
Alternating red/green	No cable detected

LED B status information after initial power-on

LED Status	Description
Solid green	Fault
Flashing green	Functional system – normal operation

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Single Desktop

On Windows systems, the single desktop supports the Dome C3 display in portrait mode only. From one DX display controller, you can run a single desktop across two Dome C3 displays.

The procedures in this section show you how to complete the initial installation of single desktop and how to change your system configuration to move from dual-headed display to single desktop.

On the DX display controller, switch 3 on DIP switch must be in the ON position for each procedure. (See [page 7](#).)

To set the display resolution

After you install the display controller and driver, use the Dome tab to set the display resolution for single desktop.

- 1 Right-click the desktop, and select Properties > Settings.
The Settings tab appears.
- 2 Select Default Monitor and Dome DX/PCI from the Display list. Make sure the box for Extend my Windows desktop onto this monitor is checked.
- 3 Select Advanced > Dome. (See [page 22](#).)
- 4 In the resolution field, choose the resolution for single desktop, 3072 x 2048.
- 5 Click OK.
- 6 Go to step 7 of the procedure on [page 11](#) to complete this operation.

Using multiple displays

Each DX display controller can support two Dome C3 displays in portrait or landscape mode. Using two displays, side by side, allows you to view two images simultaneously or one image across both displays.

To view one image across both displays, use the single desktop configuration.

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On the Dome tab, select resolution 3072 x 2048 for the single desktop

To change the configuration to single desktop

If you are working on a dual-headed display, you can use the following procedure to change your hardware and software configuration to single desktop.

- 1 Use the InstallShield Wizard to uninstall the existing driver (dx.5.1.0.003 release and higher). See "To uninstall the driver" on [page 25](#).
- 2 On the DIP switch, place switch 3 in the ON position. (See [page 7](#).)
- 3 Reinstall the DX display controller. (See [page 8](#).) Then attach both displays to the controller. (See [page 9](#).)
- 4 Power on the system, and run Setup.exe to install the driver. (See [page 10](#).)
- 5 Set the display resolution. (See [page 11](#)).

Safety precaution

Wear an antistatic wrist strap when handling the board and display to prevent electrostatic discharge.

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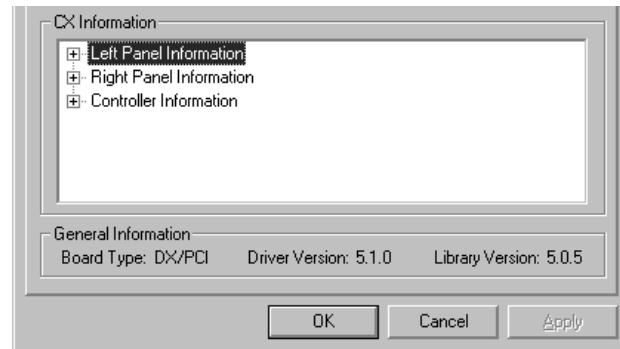
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To get information

Open the Dome tab to retrieve information on the two displays you are using to run single desktop. Information for both left and right panels appears at the bottom of the Dome tab, as shown in this illustration. See [page 12](#) for more information.

**Restoring dual heads**

To return to dual-headed display, follow the procedure above but place switch 3 on the DIP switch in the OFF position. Then use the procedures in "Change the Display Properties" on [page 11](#) to set the display resolution.

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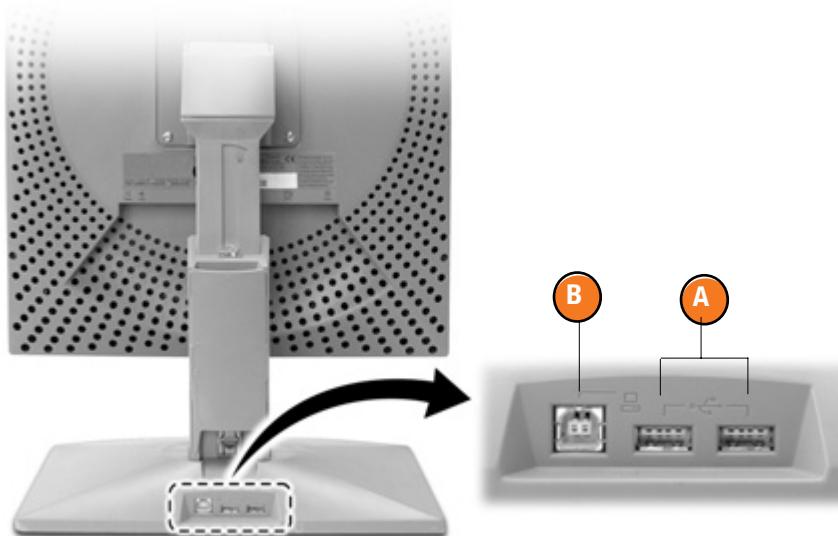
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USB Connection

The display desk stand contains an integrated, self-powered USB hub that allows you to attach USB devices (such as a keyboard or mouse) to the Dome C3 display rather than to a computer.

To use the USB ports

- 1 Use a Type A-B USB cable to connect the USB B port on the desk stand to the USB A port on your USB-compliant computer or other hub.
- 2 Connect USB-compliant peripherals to the USB A ports on the desk stand.



Dome C3 Display

Legend

A USB A (downstream) port
B USB B (upstream) port

USB tips

To activate the USB hub function, connect the display to a USB-compliant computer or another hub with the Type A-B USB cable.

Use USB devices connected to the display even when the display is in power-saving mode.

Use USB devices connected to the display even when the display is unplugged from the power source. The USB hub on the desk stand is powered by the computer.

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Display Driver and Controller Removal

Removing the DX display controller is a two-part process. Use the InstallShield Wizard to uninstall the driver first. Then use the Device Manager to remove the controller.

To uninstall the driver

- 1** Insert the WINDX CD, and browse to find the Win2k\DXpcidirectory.
- 2** Double-click Setup.exe. The Welcome dialog box appears.
- 3** Select Remove, and click Next.
- 4** Click OK to confirm uninstall.
- 5** Select Yes, I want to restart my computer now, and click Finish.

To remove the device

- 1** Right-click My Computer.
- 2** Select Properties and click Hardware then Device Manager.
- 3** Open Display Adapters.
- 4** Highlight the device you want to uninstall.
- 5** Press the <Delete> key or click the Delete icon, then click OK.
- 6** Shut down the computer and remove the display controller.

Safety precaution

Wear an antistatic wrist strap when handling the DX display controller to prevent electrostatic discharge.

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Power Management

You have two ways to lower energy usage when the Dome C3 display is idle:

- Dome CXtra Backlight Saver service (preferred)
- DPMS (Display Power Management Signaling)

Activate the power saver when you anticipate periods of inactivity, such as at the end of the work day. Once activated, Backlight Saver (or DPMS) automatically turns the backlight off during the period of inactivity. Backlight Saver and DPMS both extend the life of the backlight and reduce burn-in of images.

To activate DPMS, use the display with a computer that has power-saving circuitry. Computers running the Windows XP or Windows 2000 operating system have this feature built in.

The backlight lasts approximately 30,000 on-time hours.

Do not use both the Backlight Saver and DPMS.

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Palette Options

The Dome DX display controller supports different palette options on Windows systems.

In the Palette Options field of the Dome tab, use the pull-down menu to select a palette. Then click Apply or OK.

Dome palette options must coordinate with the primary display. All flat panels must be set to either palette devices or non-palette devices, as shown in this table.

Palette Device	Non-Palette Device
<ul style="list-style-type: none">Dynamic gray	<ul style="list-style-type: none">Nonlinear static grayStatic gray

All Dome display controllers that support multiple displays also support differing palette options on multiple screens attached to the same controller.

See the assignment of values on the grayscale palettes on [page 28](#).

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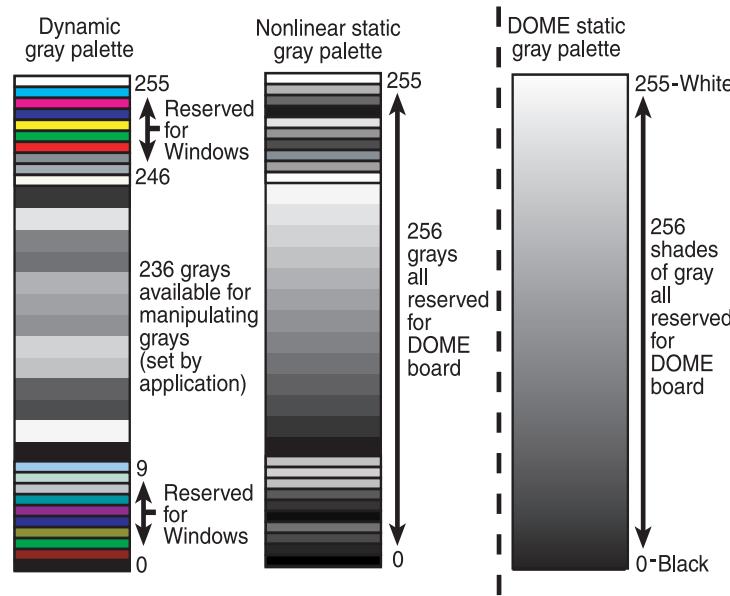
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▲ Assignment of values on the grayscale palettes

Palette options with multiple displays

The SelectPalette and RealizePalette functions in the Microsoft Developer's Network, or MSDN, work across all flat-panel displays if the primary panel is palettized. The palettes of all palette-type devices are synchronized. If, however, the primary panel is not palettized, the SelectPalette and RealizePalette functions select the palette into the background, and palettized devices are not synchronized.

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Desktop icons

The palette specifications of the primary display determine how desktop icons are drawn. For example, the desktop icons appear gray on a color screen if the primary display is set to a gray palette.

The following table lists the palette options available on primary and secondary displays. A check mark (✓) indicates the palette combination that works.

PRIMARY DISPLAY	SECONDARY DISPLAY				
	Dynamic gray	Nonlinear static gray	Static gray	True color	Pseudocolor
Dynamic gray	✓	✓		✓	✓
Nonlinear static gray		✓	✓		
Static gray		✓	✓		
True color		✓	✓	✓	✓
Pseudocolor	✓			✓	✓

Dynamic gray palette

The dynamic gray palette reserves the first and last 10 entries in the palette for the Windows NT operating system, but you can manipulate the middle 236 entries. Your application can create a 256-entry gray ramp in any 8-bit driver by calling the Windows API function SetSystemPaletteUse(), but doing so causes all icons to be redrawn in black and white.

The dynamic gray palette accommodates gray-mapped Windows colors for the first and last 10 palette entries.

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Nonlinear static gray palette

The nonlinear static gray palette sets the first and last 10 palette entries to gray-mapped Windows colors. The middle 236 entries are ramped in ascending order, excluding the first and last 10 palette entries. Windows applications that use the first and last 10 palette entries as Windows colors display correctly on the screen.

Although the nonlinear static gray palette provides correct colors for applications using the Windows palette, colors display incorrectly if the application assumes that a static palette is always ramped.

Static gray palette

The static gray palette provides 256 shades of gray in a static palette. This palette does not reserve the first and last 10 palette entries for icons and other standard Windows graphics, which frees the entire grayscale ramp for applications.

The static gray palette does not provide gray-mapped Windows colors for the first and last 10 palette entries. Because the framebuffer assumes the Windows palette is in use, applications that draw directly to the framebuffer display incorrectly.

For example, icons and button bitmaps may display in black and white.

Note

Applications cannot set the nonlinear static gray palette or the static gray palette. They must read the palette from the operating system and use it when drawing directly to the framebuffer.

Application colors display incorrectly if the application assumes all 8-bit framebuffers have palettes that can be set.

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Overview of Standard Warranty

Summary

- Standard 1-year "repair and return" warranty
- Industry-leading 10-year backlight warranty¹
- Typical repair turnaround time of 10 business days

Standard Warranty Return Procedure

As a Planar Standard Warranty customer, you must follow the procedure below if you have a non-functioning Dome CX display. The Planar customer service staff will attempt to correct any minor issues that may be causing the problem. Once Planar has determined that you have a non-functioning product, Planar will arrange for return and repair of the non-functioning product.

- 1 Contact Planar via the web at <http://www.planar.com/support>. In North America, call (866) PLANAR1 (866.752.6271). In Europe, call +358 9 420 01 or send your info by fax to +358 9 420 0200. You must have the model number, serial number, and proof-of-purchase available.
- 2 Planar customer service staff will attempt to correct any minor issues that may be causing the problem. If we are unable to correct the problem to your satisfaction, we will issue a Return Material Authorization (RMA).
- 3 You must return the product, as specified, to Planar Systems. Planar will validate the defect, repair the unit, and return the unit to you. The typical turnaround time is 10 business days.

¹ If, within 10 years of initial purchase, the maximum output of the Dome CX warranty is determined by Planar Systems to be less than 300 cd/m², Planar will repair or replace the display, at its sole discretion.

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Summary Limitations and Exclusions of Dome Displays

- 1** Customer must provide original proof of purchase of the display system.
- 2** Warranty is void on any product with a defaced, modified, or removed serial number.
- 3** Warranty is void on any product with damage, deterioration, or malfunction resulting from the following:
 - a**) Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b**) Repair or attempted repair by anyone not authorized by Planar.
 - c**) Any damage of the product due to shipment.
 - d**) Removal or installation of the product.
 - e**) Causes external to the product, such as electric power fluctuations or failure.
 - f**) Use of supplies or parts not meeting Planar's specifications.
 - g**) Normal wear and tear.
 - h**) Any other cause, which does not relate to a product defect.
- 4** Warranty excludes removal, installation, and setup service charges.

Limitation of Implied Warranties

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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Exclusion of Damages

THE LIABILITY OF PLANAR IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. PLANAR SHALL NOT BE LIABLE FOR THE FOLLOWING:

- 1** DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THEIR POSSIBILITY OF SUCH DAMAGES.
- 2** ANY OTHER DAMAGES, WHETHER INCIDENTAL, INDIRECT, CONSEQUENTIAL OR OTHERWISE.
- 3** ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Effect of Local Law

This warranty gives you specific legal rights, and you may have other rights, which vary from locality to locality. Some localities do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Technical assistance

In North America, call 1 (866) PLANAR1 between 8 A.M. and 5 P.M. Pacific time, Monday through Friday, or send a description of your technical issues and e-mail address to medicalseupport@planar.com.

In Europe, call +358 9 420 01 between 8 A.M. and 4 P.M. Finnish time (Eastern European time), Monday through Friday, or send a description of your technical issues and e-mail address to medicalseupport@planar.com.